POOR LEGIBILITY

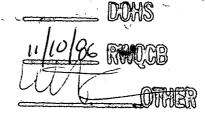
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SFUND RECORDS CTR 2360386

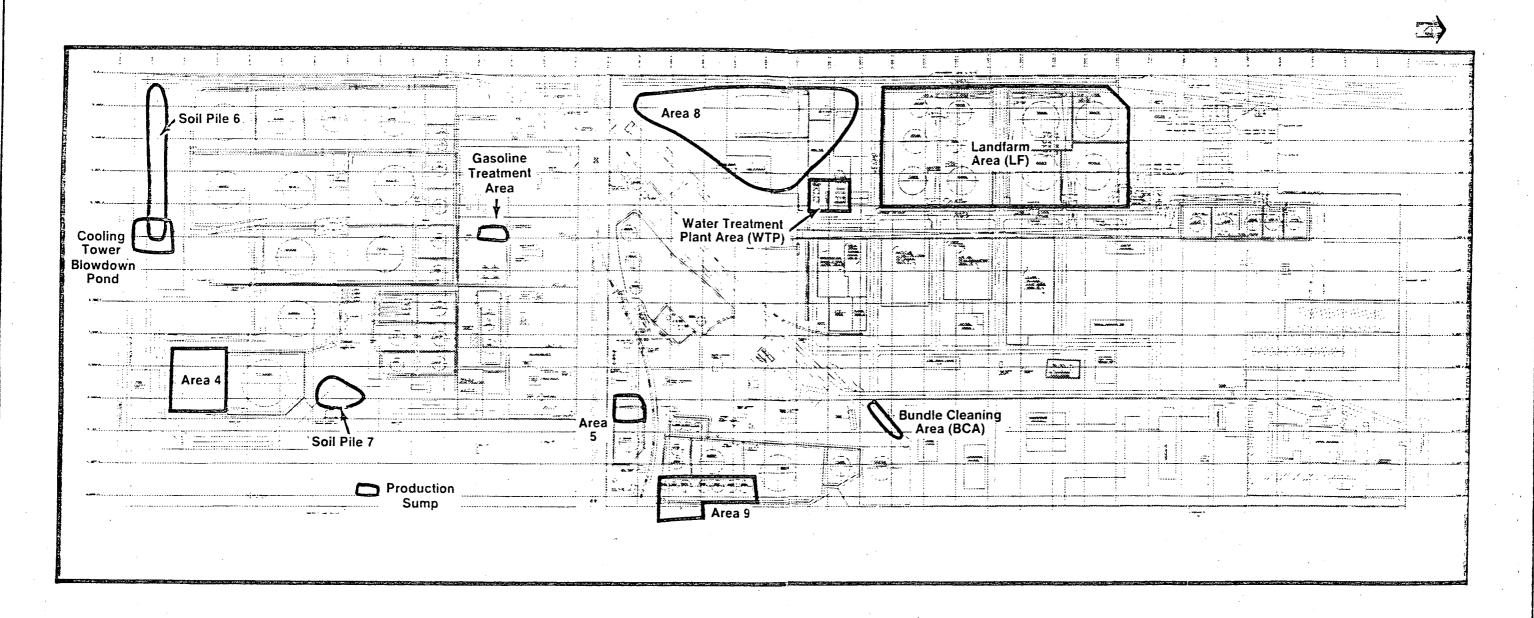
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La viel à formal ansaire de KERN COUNTY

FRUITVALE OIL FIELDS



- 1. WHAT OTHER REFINERIES OR INDUSTRIES IN THE AREA, WHO MAY HAVE "PAST WASTE DISPOSAL PRACTICES", ARE POTENTIALLY CONTRIBUTING TO OR CREATING GROUNDWATER DEGRADATION PROBLEMS?
- 2. WHAT IS OUR (STATE) LEGAL AUTHORITY TO PURSUE SUCH INVESTIGATIONS?
- 3. WERE THESE "PAST WASTE DISPOSAL PRACTICES" UNDER PERMIT/WASTE DISCHARGE REQUIREMENTS FROM OUR AGENCY?
- 4. WHY ARE WE PURSUING, "CLEANUP AND ABATEMENT ORDERS" AGAINST A REFINERY AND "CEASE AND DESIST ORDERS" AGAINST THE OTHERS? WILL THESE NON-COMPLYING OIL FIELD (AND OTHER DISCHARGERS) BE REQUIRED TO MONITOR AND/OR CLEANUP ANY CONTAMINATION (i.e. SOIL AND GROUNDWATER)?
- 5. WHAT RELATIONSHIP DO THESE PAST DISPOSALS HAVE WITH SUPERFUND CLEANUPS (STATE AND FEDERAL)?
- 6. HOW WOULD FEDERAL RCRA/CERCLA REGULATIONS TREAT THESE TYPES OF CLEANUPS/INVESTIGATIONS? ALSO WOULD NON-HAZARDOUS (CALIFORNIA DHS) LEVELS SIGNIFICANTLY DEGRADE GROUNDWATER?
- 7. SINCE THESE REFINERIES ARE WITHIN THE FRUITVALE OIL FIELD, DO WE FEEL THAT THESE NON-COMPLYING OIL FIELD OPERATIONS (i.e. UNLINED SUMPS), ARE CONTRIBUTING TO GROUNDWATER PROBLEMS BELOW THE REFINERIES?
- 8. HOW DOES THE PROPOSED 205-1 STUDY IN THE FRUITVALE AREA, RELATE TO THESE INVESTIGATIONS BY THE REFINEREIS? WHY ARE THESE STUDIES NOT BEING COMBINED? TO WHAT EXTENT ARE THESE INVESTIGATIONS GOING TO BE PURSUED; IS GRMC'S "ADEQUATE APPROACH" FINANCIALLY MORE SIGNIFICANT THAN TOSCO'S OR THE 205 J STUDY?
- 9. WHAT POTENTIALLY, IS THE END RESULT; ARE WE CONSIDERING THAT EACH REFINERY CLEANUP ONLY THEIR AREA OF INFLUENCE?
- 10. SINCE THERE ARE MANY REFINERIES AND OTHER SUCH INDUSTIRES THROUGHOUT CALIFORNIA WHO MAY HAVE HAD SIMILAR PAST DISPOSAL PRACTICES, ARE SIMILAR INVESTIGATIONS BY THE OTHER REGIONAL BOARDS BEING PURSUED? IF SO WHAT HAS BEEN THE RESULTS?

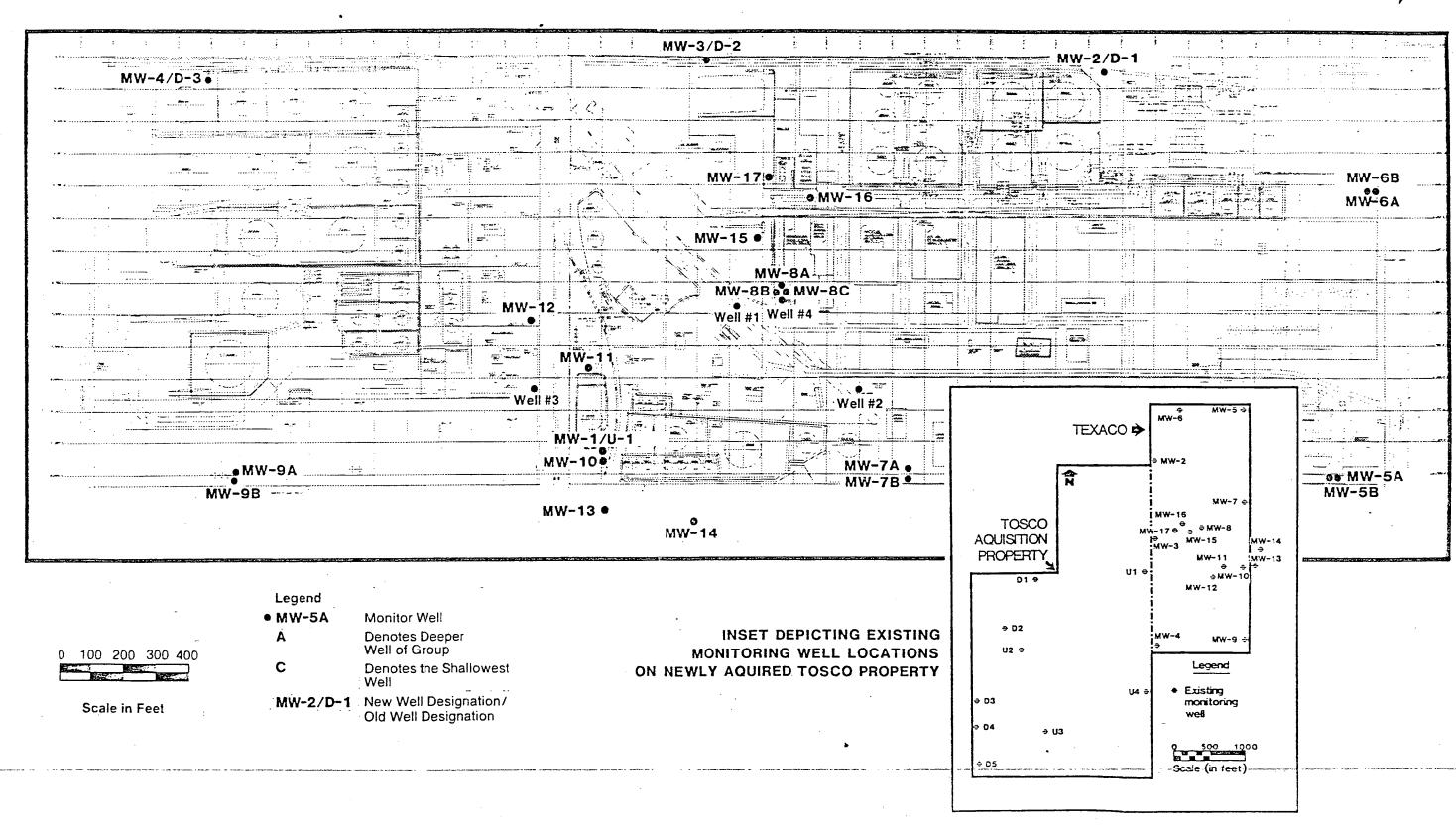


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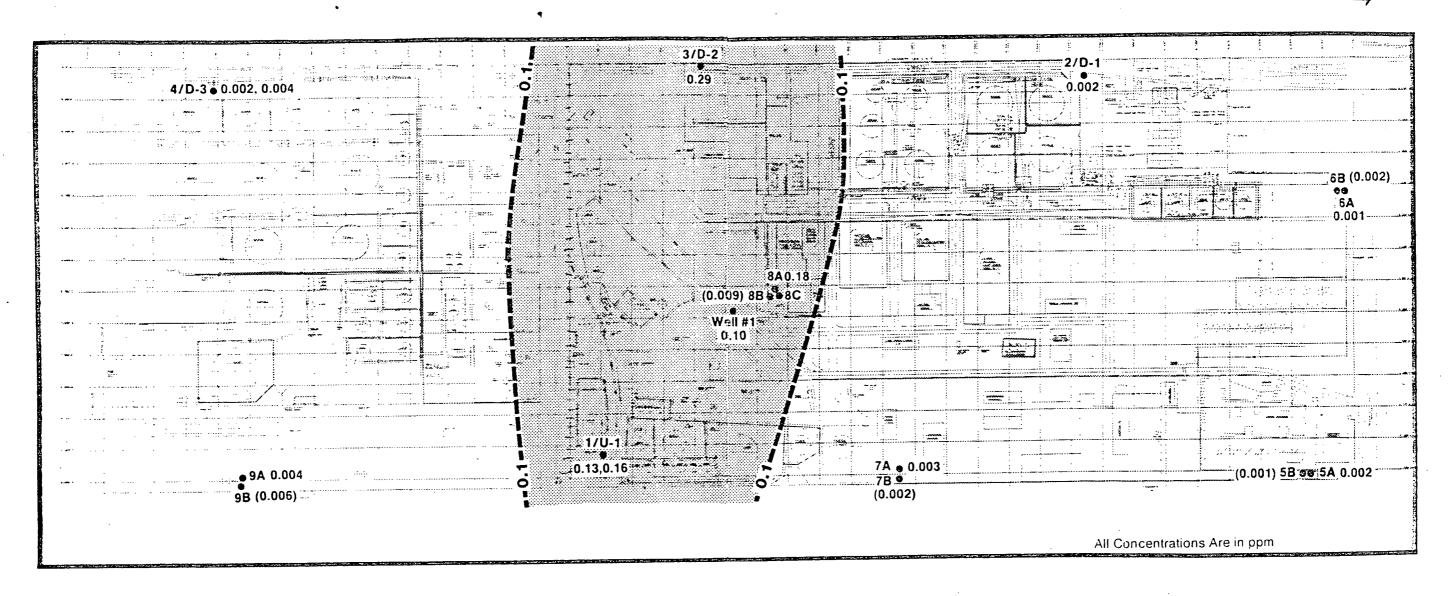
Scale in Feet

Legend

Denotes Approximate
Boundary of These Areas



TO BETTER OFF



Legend

Monitor Well ● 5A

Denotes Deeper Well of Group

Denotes the Shallowest Well

2/D-1 New Well Designation/ Old Well Designation

(0.006) Parenthetic Concentrations for the Shallower B-Series Wells

0.13,0.16 Two Concentrations Separated by a Comma Denote Duplicate Analyses



Approximate Boundary of Elevated Arsenic Concentrations in the Groundwater

0 100 200 300 400

Scale in Feet

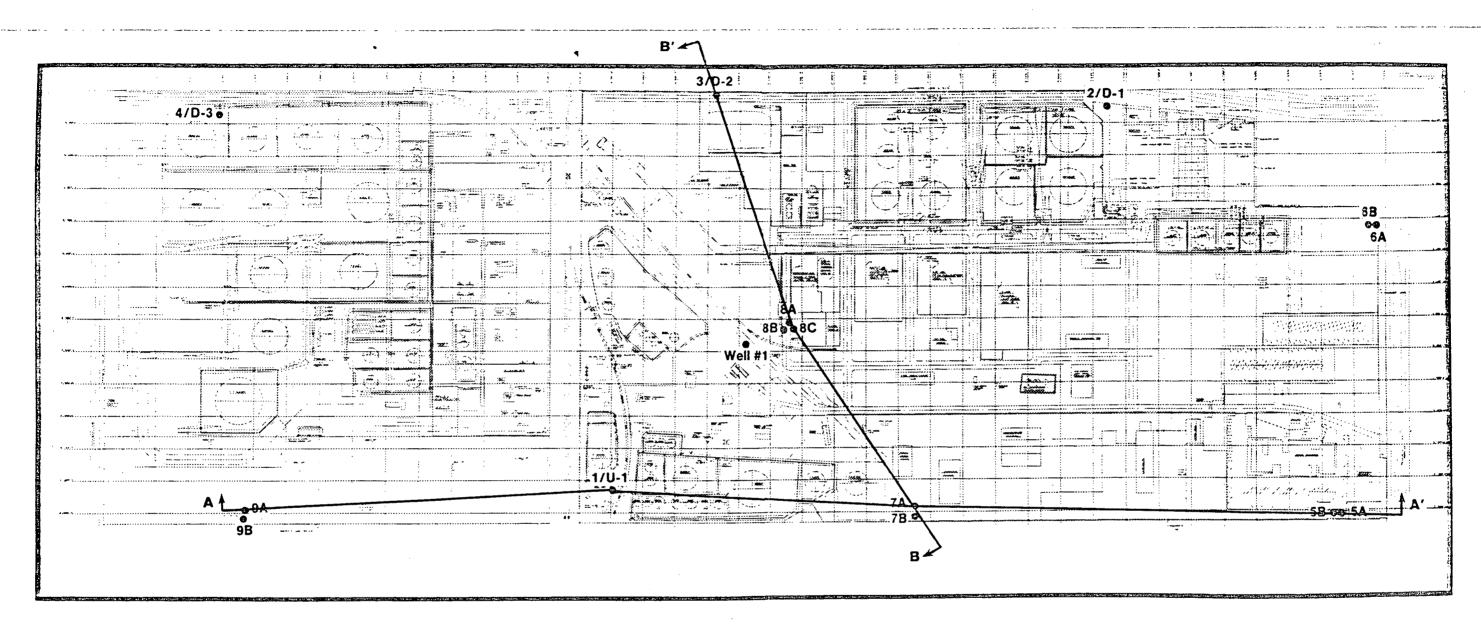
TABLE 4.2-1 CHEMICAL ANALYSES OF GROUNDWATER SAMPLES

WELL NUMBER 1)	MW-1/U-!		MW-2/D-1		MW-3/D- 2		MW-4/D-3		₩-5 A	MW-5B	:W-6A	<u>MW-68</u>	_ MW−7A	<u> </u>	MW-8A	15W-8B	::W-9A	<u> </u>	;	44		
SAMPLING DATE 2)	10/12/83	(MW-1) 01/14/85	icate (MW-10) 01/14/85	10/12/83	01/13/85	10/12/83	01/13/85	10/12/83	(NW-4)	(MW-11) 01/14/85	01/12/85	01/12/85	01/12/85	01/12/85	01/13/85	01/13/85	01/12/85	01/12/85	01/13/85	01/13/85	12/29/84	
SCREENED INTERVAL (feet)	50.3-60.3		67.3-77.3		64.2-74.2		69-79			55 -65		61.5-71.5	41.5-51.5	50 -70	39-49	60-70	40-50	59.5-69.5		. 64-85	į.	
FIELD ANALYSES								09-79		33 03	3,,,,		,,,,,	30 .0	33 13	33 73	- G 70	37.3-07.3	12-32	. 54-05	506	
pH	-	7.0	7.0	-	7.0	_	7.1	_	7.0	4 a	6.3	6.8	6.8	4 0	7.1	7.0						1
Specific Conductance (umhos/cm @ 25°)	_	935	935	_	135		1000	_	240	6.9				6.9	7.1	7.0	6.9	5.9	5.3	5.9	-	
LABORATORY ANALYSES							1000	-	240	240	163	431	114	124	488	517	51 8	340	243	194	-	a di ing
Organic Compounds (ug/1)						•														,		wiking the
Benzene	(2.7)	1900	2000	<0.01	<1	1.0	<1	0.78	(450)	(290)	<2	< 1 .	<1	<1	< t	<1	120	. <1	<1	. 1		
Chlorobenzene	<0.01	<10	<10	<0.01	<1	0.01	<1	<0.01	41	1	\2 <1		<1	<1	<1	<1	<1		-1	<1	<1	
Chloroform	0.28	<10	<10	<0.01	<1	0.08	<1	<0.01	<1	1		<1 <1		<1				< L	\1	<1	< L	4
1,2-Dichloroethane	<0.01	120	80	<0.01	<1	(1.1)	<1	<0.01	<1	<1	<1		1		<1	<1	<1	٠[.	<1	<1	<1	
Ethylbenzene	>100	990	1400	0.06	<1	0.16	<1	0.50	<1	-1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1 	9.
Methylene Chloride	<0.01	<10	<10	<0.01	<1	1.0	<1	<0.01	<1	<1	<1	<1	<1	<1	<1	1>	<1	<1	</td <td>. <1</td> <td>163</td> <td>< }</td>	. <1	163	< }
l,1,1-Trichloroethane	0.12	<10	<10	0.16	<1	0.68	<1	0.12	<1	~1 ~1	<1	<1	<1	<1	<1	< t	<1	< I	<1	<1	<1	<;.
Trichloroethene	0.02	<10	<10	<0.01	<1	0.02	<1	0.02	<1	</td <td><1</td> <td><1</td> <td><1</td> <td><1</td> <td><1</td> <td>1></td> <td><1</td> <td><1</td> <td><1</td> <td><1</td> <td><1</td> <td><:</td>	<1	<1	<1	<1	<1	1>	<1	<1	<1	<1	<1	<:
Tetrachlorethene	<0.01	<10	<10	<0.01	<1	0.02	<i< td=""><td>0.02</td><td><1</td><td></td><td><1.</td><td><1</td><td><1</td><td><1</td><td><1</td><td><1</td><td><1</td><td>< 1</td><td><1</td><td>· l</td><td><1</td><td><!--<br-->{!</td></i<>	0.02	<1		<1.	<1	<1	<1	<1	<1	<1	< 1	<1	· l	<1	<br {!
Toluene	14	3200	4800	<0.01	<1	_	<1	0.57		< 1	<1	<1	<1	<1	<1	<1	1>	< 1	. <1	<1	< 1	< .
		3399	4000	10.01	~1	_		0.3/	<1	^ 1	<1	<1	<1	<1	<1	<1	~ L	< L	< l	-{ !	15	₹ :
Naphthalene	<0.01	. 32	16	0.40	<2	0.63	<2	1.1	<2	~2	<2	<2	<2	<2	<2	<2	<2	~ 2	<2	<2		ار
Bis (2-ethylhexyl) phthalate	e -	660	<5	-	<1	_	<1	<5	<1	~i	, \2 <1	<1	<1	<1	<1	<1		<1	14	< <u>1</u>	-	, e ₃ -
Xvlene Isomers	-	8700	:9000	0.30	<1	0.73	<1	2.5	<1	٠,	<1	<1	<1	<1	<1	<1	<1	<1	<1	- . < l	(240)	54 30 1
Styrene	-	<10	<10	0.07	<1	_	<1	0.06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	, 51 <1	•	\
Inorganic Compounds (mg/l) ³)						-		**	•	~1 .	~ 1	` 1	~1	(~1	~ L	(~1	~ t	</td <td>₹;;.</td>	₹ ;;.
Arsenic	-	0.13	0.16	_	0.002	_	0.29	_	0.002	0.004	0.002	0.001	0.001	0.002	0.003	0.002	0.18	0.009	0.004	0.006	2.10	٠.
Zinc	-	0.01		-	0.02	-	<0.01	-	0.002	0.004	0.01	0.01	0.02	0.01	0.01	<0.01	0.02	0.01	0.01	0.02	0.10	1. ·

¹⁾ because wells MW-1 through MW-4 have been re-numbered, Well numbers such as MW-1/U-1 indicate the new and old well designations: MW-1 is the new well designation and U-1 is the old well designation.

²⁾ Samples analyzed in October 1983 were analyzed by a non-standard GC/MS technique, those analyzed in January 1985 were analyzed by EPA methods 624 and 625. See Table B-2 of Appendix B for a detailed description of the methods and the resulting detection limits.

³⁾ All other CAM metals were not detected at the following detection limits (mg/l): antimony (0.3), barium (0.1), beryllium (0.01), cadmium (0.01), chromium (0.05), cobalt (0.05), copper (0.05), lead (0.05), mercury (0.005), molybdenum (0.02), nickel (0.05), selenium (0.001), silver (0.05), thallium (0.2), and vanadium (0.5).



Legend

Monitor Well

Denotes Deeper Well of Group

Denotes the Shallowest

2/D-1 New Well Designation/ Old Well Designation

0 100 200 300 400

Scale in Feet

TOUR TO LOCATION OF THE PROPERTY OF THE